Using the Palm OS PDA

For

Height Weight Utilization

(For instructions on methodology)
See Interagency Technical
Reference BLM/RS/ST-96/004+1740
Utilization Studies
And
Residual Measurements
1996

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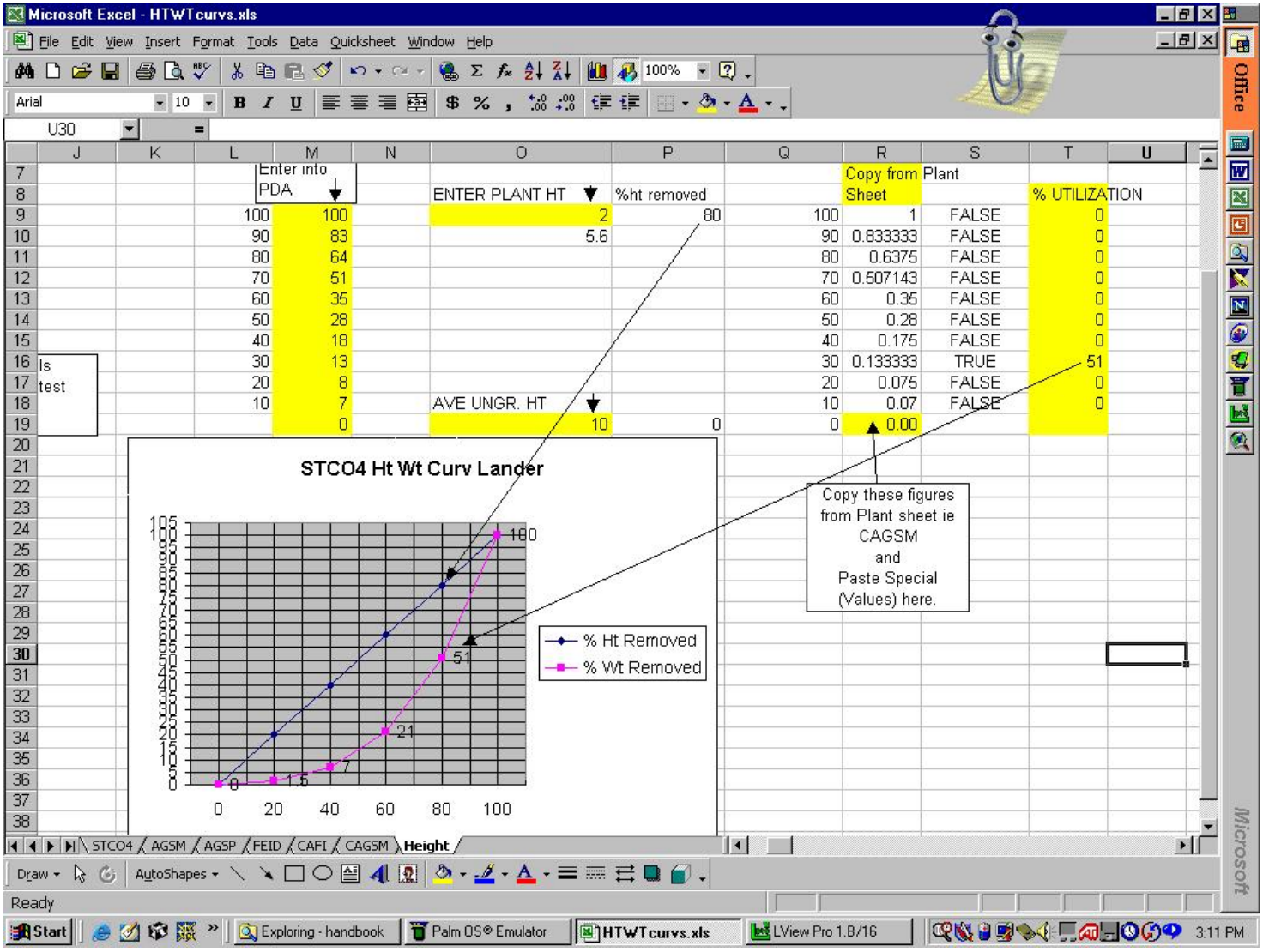
Start the program by touching the height button

The height program calculates % utilization by comparing the % of height removed to the % of weight removed from a height weight curve as shown below.

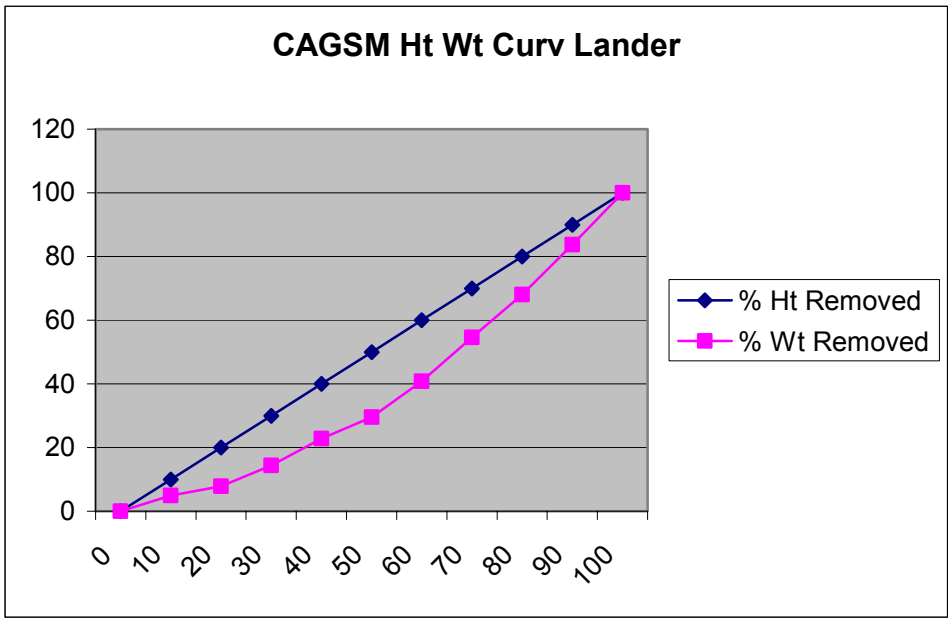


Enter heading information on the screen below including GPS coordinates.

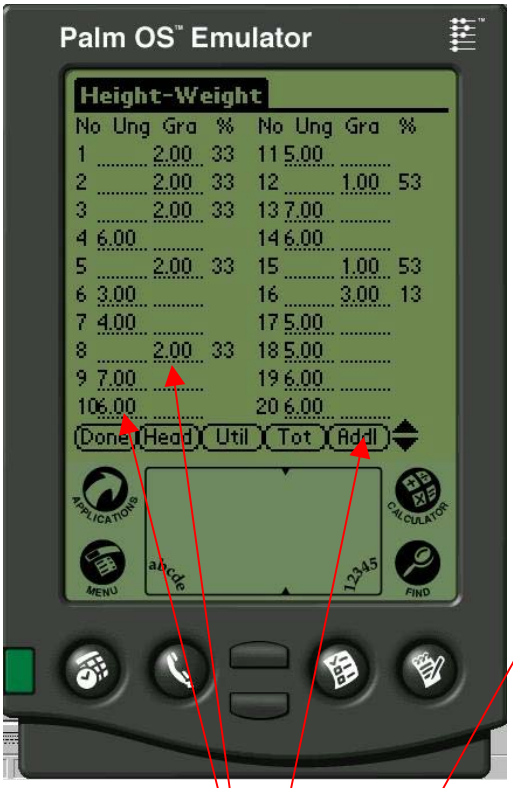
Touching the Species arrow allows you to select the plant you are measuring or enter a height weight curve for a new plant.

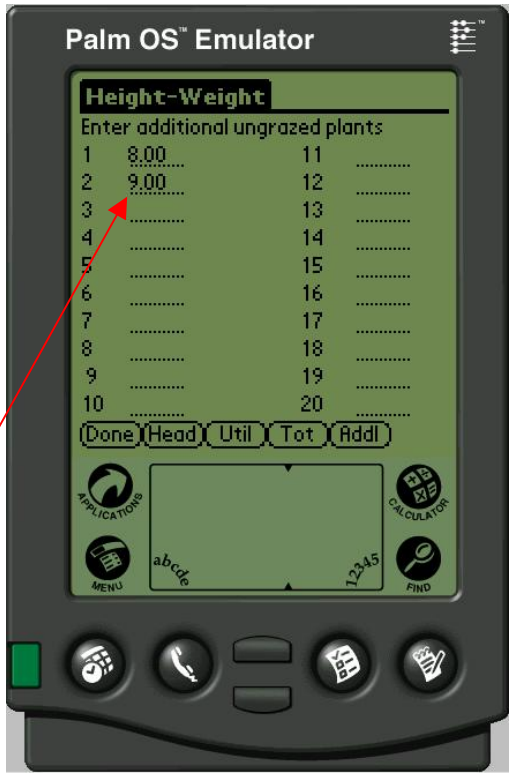
Touching the menu button allows you to recalculate or edit the height weight curve for the plant as well as other options.

Entering a height weight curve into the PDA

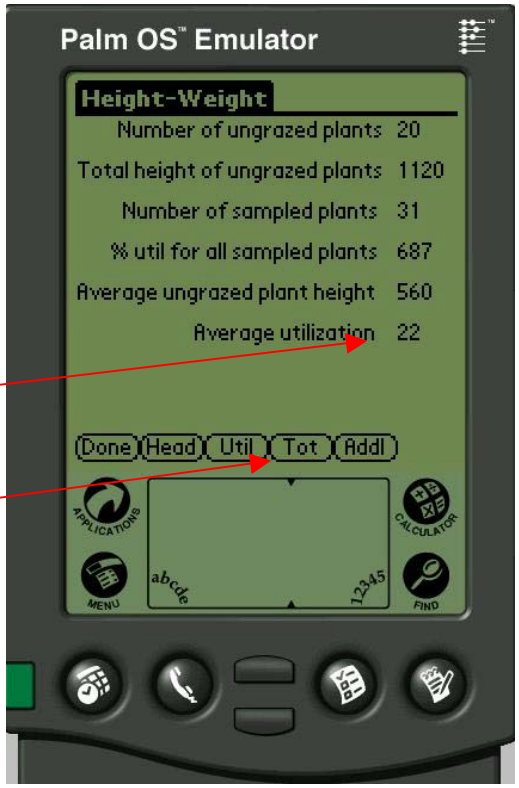


If x≤10 .49x=y	or y=4.9	Enter 49 into the pda
If x≤20 .39x=y	or y=7.8	Enter 39 into the pda
If x≤30 .48x=y	or y=14.7	Enter 48 into the pda
If x≤40 .53x=y	or y=21.2	Enter 53 into the pda
If x≤50 .59x=y	or y=29.5	Enter 59 into the pda
If x≤60 .68x=y	or y=40.8	Enter 68 into the pda
If x≤70 .78x=y	or y=54.6	Enter 78 into the pda
If x≤80 .85x=y	or y=68	Enter 85 into the pda
If x≤90 .93x=y	or y=83.7	Enter 93 into the pda
If x>90 1.0x=y	or y=100	Enter 100 into the pda



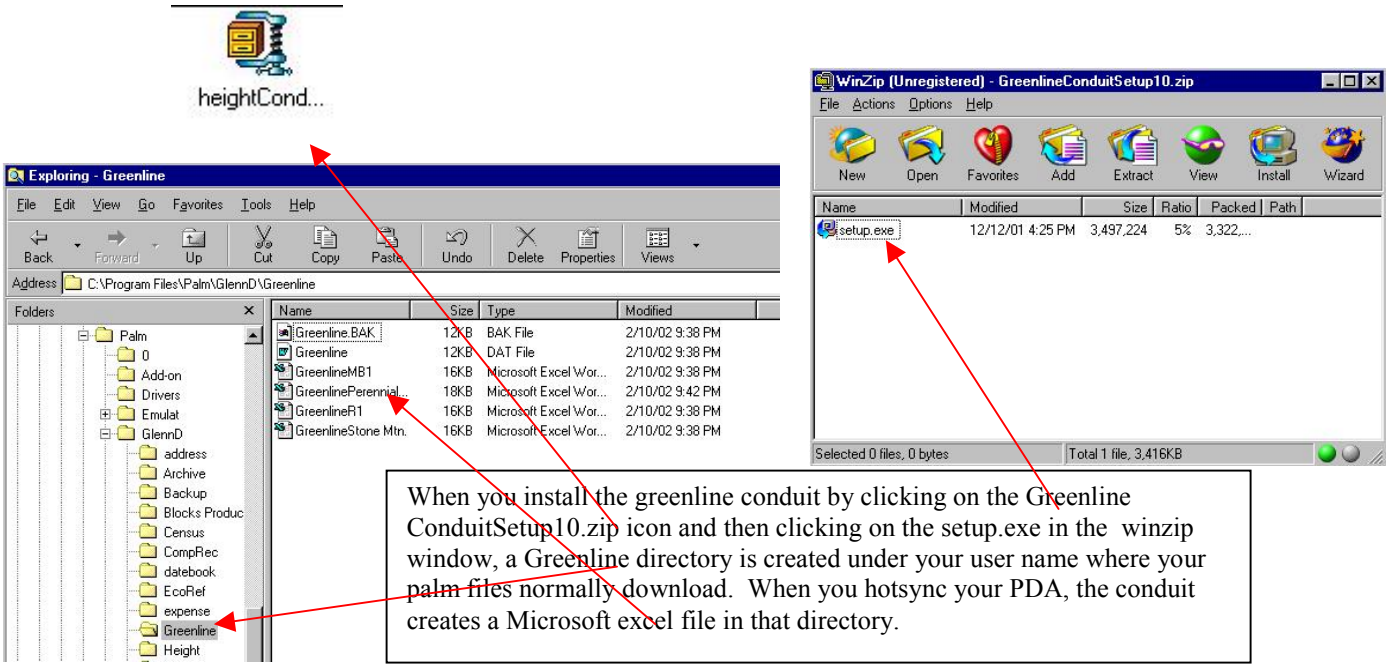


Enter the plant height along the transect in either the grazed or ungrazed column. When finished with the transect, enter additional ungrazed plants if necessary by touching the Addl button.

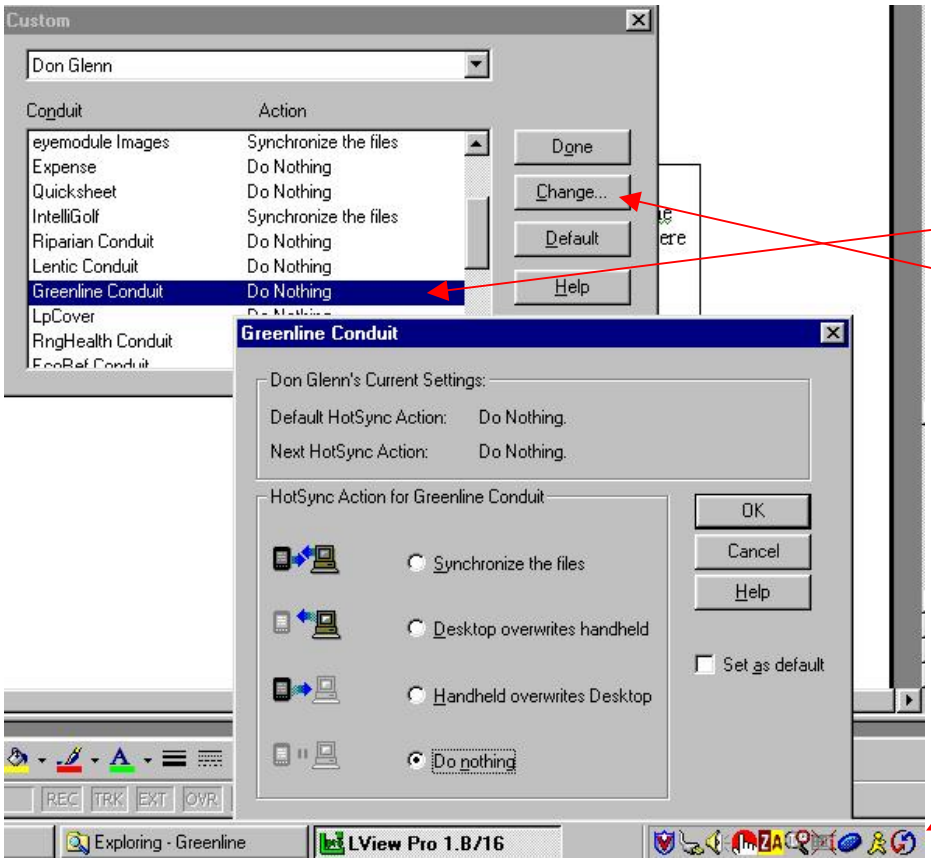


The program calculates the % utilization based on the curve that was entered for each individual plant (shown above), and the total when the Tot button is touched.

Setting up the Height Conduit and downloading the data to Excel works exactly the same as the instructions for the Greenline method described below.

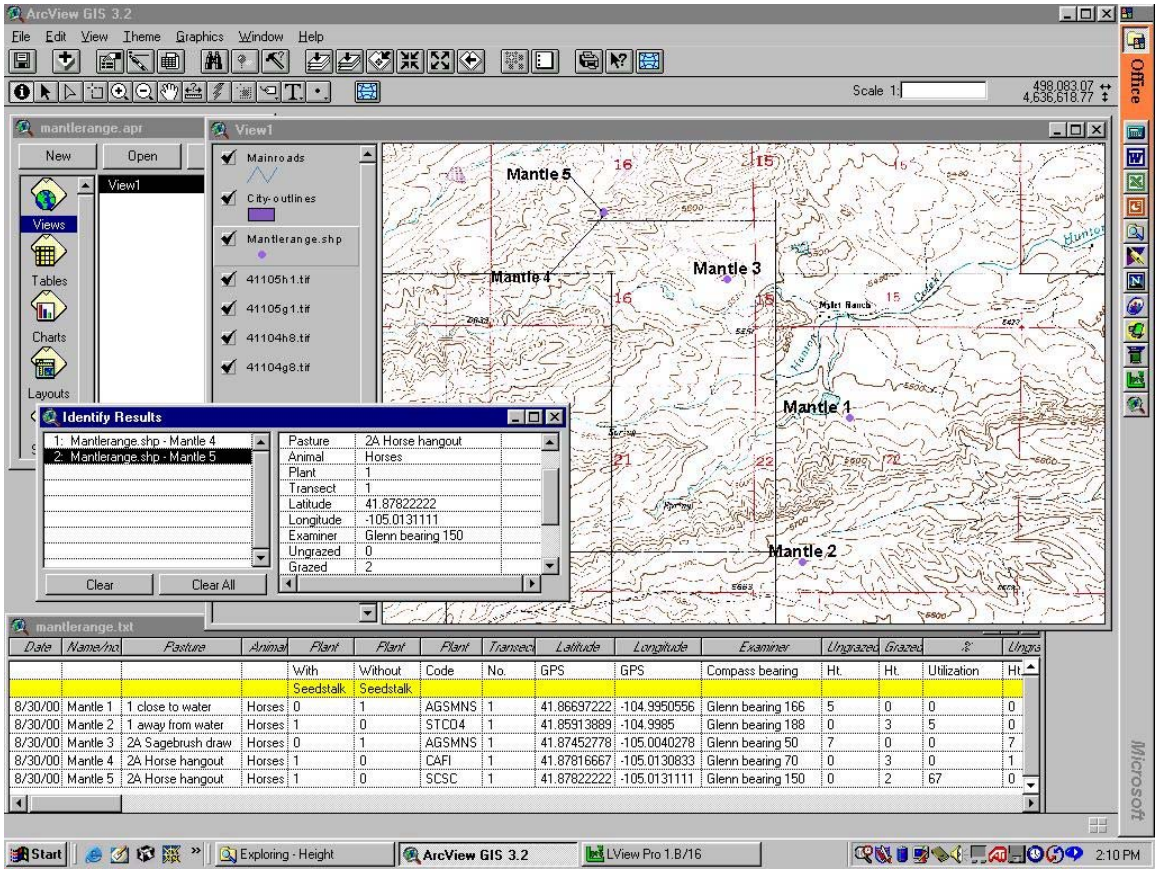


When you install the greenline conduit by clicking on the Greenline ConduitSetup10.zip icon and then clicking on the setup.exe in the winzip window, a Greenline directory is created under your user name where your palm files normally download. When you hotsync your PDA, the conduit creates a Microsoft excel file in that directory.



You can turn the conduit on and off by right clicking on the hotsync icon and selecting custom. Then highlight the Greenline Conduit and click change. If the conduit is set to do nothing, the excel file will not be created, however the data will be backed up in the backup directory.

All the data can be imported from Excel into ArcView and stored by geographic coordinate if the Lat Lon is entered from a GPS unit when collecting the data.



Date	Name/no	Pasture	Animal	Plant With Seedstalk	Plant Without Seedstalk	Plant Code	Transect No.	Latitude GPS	Longitude GPS	Examiner Compass bearing	Ungrazed Ht.	Grazed Ht.	% Utilization	Ungra Ht.
8/30/00	Mantle 1	1 close to water	Horses	0	1	AGSMNS	1	41.86697222	-104.9950556	Glenn bearing 166	5	0	0	0
8/30/00	Mantle 2	1 away from water	Horses	1	0	STC04	1	41.85913889	-104.9985	Glenn bearing 188	0	3	5	0
8/30/00	Mantle 3	2A Sagebrush draw	Horses	0	1	AGSMNS	1	41.87452778	-105.0040278	Glenn bearing 50	7	0	0	7
8/30/00	Mantle 4	2A Horse hangout	Horses	1	0	CAFI	1	41.87816667	-105.0130833	Glenn bearing 70	0	3	0	1
8/30/00	Mantle 5	2A Horse hangout	Horses	1	0	SCSC	1	41.87822222	-105.0131111	Glenn bearing 150	0	2	67	0